This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: This declaration is of the following type:		
,	INVENTORSHIP IDENTIFICATION	
and sole invent	post office address and citizenship are as stated below next to my name. I believe I am the original, first or (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) natter which is claimed and for which a patent is sought on the invention entitled:	
	INTEGRATED MULTI-STEP GAP FILL AND ALL FEATURE PLANARIZATION FOR CONDUCTIVE MATERIALS	
	SPECIFICATION IDENTIFICATION	
The specification	on of which:	
[x] [] []	is attached hereto was filed on , under Serial No. , executed on even date herewith; or Express Mail No.(as Serial No. not yet known) and was amended on (if applicable) was described and claimed in PCT International Application No filed on and as amended under PCT Article 19 on	
4	ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR	
	at I have reviewed and understand the contents of the above-identified specification, including the claims, any amendment referred to above.	
	he duty to disclose all information I know to be material to patentability in accordance with f Federal Regulations, §1.56,	

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[] In compliance with this duty there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

PRIORITY CLAIM (35 U.S.C. §119)

application(s) for other than the application(s) for other than the U	foreign priority benefits under Title 35, United States Code, §119, of any provisional or foreign properties or inventor's certificate or of any PCT international application(s) designating at least one country. United States of America listed below, and have also identified below any provisional or foreign patent or inventor's certificate or any PCT international application(s) designating at least one country. United States of America filed by me on the same subject matter having a filing date before that of the f which priority is claimed.
[X]	No such applications have been filed.

	[X] No s	uch applica	tions have been filed	i.		
	[] Such	application	ns have been filed as	follows:	•	
A.		Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119				
	Country/PC	СТ Ар	plication No	Date Filed	Priority Claimed	
					[] Yes [] No [] Yes [] No [] Yes [] No	
В.	All foreign ap U.S. applicat		s), if any, filed mor	e than 12 mos. (6 mos fo	r design) prior to this	
	Country: Application N Filing date:	lo:				
C.	U.S. Provisio	nal Applic	ation filed within 12	2 months prior to this a	pplication	
	Serial No.		1	Filing Date		
			PRIORITY CI	AIM (35 U.S.C. §120)		
interna matter the firs the exa would	tional application of each of the clean the cl	on(s) designations of the cite	nating the United St is application is not of ited States Code, §1 in (namely, informate iding whether to all	ates of America that is/a lisclosed in that/those pri 12, I acknowledge the du ion where there is substa	any United States application(s) or PC are listed below and, insofar as the subject or application(s) in the manner provided by to disclose information that is material to the nitial likelihood that a reasonable Examine as a patent) which occurred between the date of this application.	

Patented

Status _

<u>Abandoned</u>

Pending

[X]

Serial No.

No such applications have been filed

Filing Date

Such applications have been filed, as follows:

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Donald Verplancken Registration No. 33,217
Michael B. Einschlag Registration No. 29,301

Peter J. Sgarbossa Registration No. 25,610 Lawrence Edelman Registration No. 25,226

Lawrence Edelman Registration No. 25,226
Michael L. Sherrard Registration No. 28,041

Raymond Kam-On Kwong Registration No. 37,165

James C. Wilson
Registration No. 35,412
Robert W. Mulcahy
Registration No. 25,436
Registration No. 37,087
B. Todd Patterson
Raymond R. Moser, Jr.
Registration No. 37,906
Registration No. 34,682
Registration No. 32,008

Send correspondence to: Direct telephone calls to:

Patent Counsel B. Todd Patterson

Applied Materials, Inc. THOMASON, MOSER & PATTERSON, L.L.P.

P.O. Box 450-A (713) 623-4844 Santa Clara, CA 95052

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Full name of sole or first invento	or: WEI-YUNG HSU	
Inventor's signature:	Alxan Ha	Date: (2/6/00
Residence:	4501 Carlyle Court, Apt. #1104 Santa Clara, California 95054	•
Post Office Address:	Same as above. U.S.A.	Country of Citizenship: TAIWAN
Full name of second inventor:	LIANG-YUH CHEN	. / /
Inventor's signature:		Date:/06/00
Residence:	1400 Melbourne Street	
	Foster City, California 94404	
Post Office Address:	Same as above.	
	U.S.A.	Country of Citizenship: TAIWAN

Full name of third inventor:	RATSON MORAD	
Inventor's signature:	an Moral	Date: 12/6/02
Residence:	4157 Solana Drive	, , ,
	Palo Alto, California 94306	•
Post Office Address:	Same as above.	
	U.S.A.	Country of Citizenship: ISRAEL
		·
Full name of fourth inventor:	DANIEL A. GARL	
/3		Date: 12/13/00
Inventor's signature:	led a C	Date: 10/13/08
Residence:	2161 Pomezia Court	
	Pleasanton, California 94566	
Post Office Address:	Same as above.	•
	U.S.A.	Country of Citizenship: U.S.A.
Full name of fifth inventor:	SASSON SOMEKH	
	/	1 - 1
Inventor's signature:	AND SON SON	Date: 12 7/00
Residence:	25625 Moody Road	
	Los Altos Hills, California 94022	
Post Office Address:	Same as above.	
	U.S.A.	Country of Citizenship: U.S.A.
•		

(Declaration ends with this page)

		ATTY. DKT. NO. AMAT	TEGAL DAKONDIONADO
FORM PTO-1565 (Ray 6J3) CMB No. 0651-0011 (exp. 464)	REGORDATION	U.S. Department of Comments Patent And Tederment Office	
		NTS ONLY	
Name of conveying party(mer of Patents and Trademarks: Please rec	cord the attached original document or copy thereof.	
i. Name of conveying party(es):	Name and address of receiving party(les);	
WEI-YUNG HSU LIANG-YUH CHEN RATSON MORAD DANIEL A. CARL SASSON SOMEKH	<u>Date</u> December 6, 2000 December 6, 2000 December 6, 2000 December 13, 2000 December 8, 2000	Name: Applied Materials, Inc	<u>. </u>
_	ing party(ies) attached? X Yes No	Street Address:	
3. Nature of conveyance:			
X Assignment	Merger	City: Santa Clara State: CA	Zip: <u>_95052</u>
Security Agreement	Change of Name	Additional name(s) & address(as) attached?	Yes <u>X</u> No
	ee Above and the Attached		
A. Patent Application No.(s) B. Patent No.(s) Additional numb	ers attached?Yes <u>X</u> No		
Name and address of party document should be mailed:	to whom correspondence concerning	6. Total number of applications and patents involve	;d: <u>1</u>
Name:	Patent Counsel PLIED MATERIALS, INC.	7. Total fee (37 C.F.R. 3.41) Enclosed X Authorized to be charged to deposit account	\$ <u>40.00</u>
Street Address:F		8. Deposit account number: 50-1074/5614,D1/CMP/CMP/RKK	
	State: <u>CA</u> Zip: <u>95052</u>		
	DO NOT USE	THIS SPACE	
Statement and signature. To the best of my knowledge Robert W. Mulcahy Reg. No. Name of Person Signing	Signature	and correct and any attached copy is a true copy of the Date I number of pages including cover sheet, attachments	2/3/04

Mail documents to be recorded with required cover sheet Information to: Commissioner of Patents, MAIL STOP P.O. BOX 1450 Alexandria, VA 22313-1450

		ATTY, DKT, NO. A	WAT/5614.D1/CMP/CMP/RKI
FORM PTC-1525 (Rox 643) QMB No. 0651-0611 (100), 4(54)	RECORDATION FORM COVER SHEET U.B. Department of Comments Patients Only		
		rd the attached original document or copy there	of
1. Name of conveying part		Name and address of receiving party(les)	
WEI-YUNG HSU LIANG-YUH CHEN RATSON MORAD DANIEL A. CARL SASSON SOMEKH	Date December 6, 2000 December 6, 2000 December 6, 2000 December 13, 2000 December 8, 2000	Name: Applied Materia Internal Address: P.O. Box 450-A	
Additional name(s) of conve	eying party(ies) attached? X Yes No	Street Address:	
3. Nature of conveyance;		City: <u>Santa Ciara</u> State: C	7 7 05050
X Assignment	Merger	Siste. U	<u>.A</u> Zip: <u>_95052</u>
Security Agreement	Change of Name	Additional name(s) & address(es) attached?	Yes X No
	See Above and the Attached		
A. Patent Application No. B. Patent No.(s)		tion date of the application is: <u>March 3, 2004 (</u> D	ate of Filing)
Name and address of part document should be malle	ty to whom correspondence concerning ed:	6. Total number of applications and patents i	nvolved: 1
Name;	Patent Counsel APPLIED MATERIALS, INC.	7. Total fee (37 C.F.R. 3.41) Enclosed X Authorized to be charged to deposit ex	
Street Address: City: Santa Clara	P.O. Box 450-A State: CA Zip: 95052	8. Deposit account number: 50-1074/5814.D1/CMP/CMP/RKK	
	DO NOT USE	THIS SPACE	
), Statement and signature. To the best of my knowledg Robert W. Mulcahy Reg. N Name of Person Signing	ge and bellef, the foregoing information is true and bellef, the foregoing information is true and bellef, the foregoing information is true.	ghd gorreet shd any ettached copfi is a true cop	Date original document, 2/3/04 Date The second of the original document of the original document.

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	WEI-YUNG HSU 4501 Carlyle Court, Apt. #1104 Santa Clara, California 95054	2)	LIANG-YUH CHEN 1400 Melbourne Street Foster City, California 94404
3)	RATSON MORAD 4157 Solana Drive Palo Alto, California 94306	4)	DANIEL A. CARL 2161 Pomezia Court Pleasanton, California 94566
5)	SASSON SOMEKH 25625 Moody Road Los Altos Hills, California 94022		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

INTEGRATED MULTI-STEP GAP FILL AND ALL FEATURE PLANARIZATION FOR CONDUCTIVE MATERIALS

for which application for Letters Patent in the United States was filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or

desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	12/06, 2000	Mary te
	/ .	WEI-YUNG HSU V
2)	<u>/2/06</u> , 2000	JAN (L
	/	MANG-YUH CHEN
3)	12/6 , 2000	Ratson Voral.
	12/13	RATSON MORAD
4)		Mul UM
		BANIEL A. CARL
4)	12 7 , 2000	M'Derell
		SASSON SOMERH